

What is claimed is:

1. In a rotational information display device which includes a housing, a motor installed in the housing and driven when a power is supplied, a wire line for supplying power, and a rotation frame which is engaged to a rotary shaft of the motor and is rotated, a rotational information display device, comprising:

said rotation frame which includes:

an outer most display unit which is longitudinally formed in an outer most portion from the rotary shaft in a longitudinal direction of the rotary shaft and is adapted to display a certain image on an outer circumferential surface of an image space formed as the light sources engaged thereon are rotated;

an inner most display unit which is longitudinally formed from the rotary shaft in a longitudinal direction of the rotary shaft and is adapted to display a certain image on a center portion of the image space as the light sources engaged thereon are rotated;

a plurality of intermediate display units which are installed parallel with respect to the display units between the outer most display unit and the inner most display unit, each of the same being distanced from each other in a radius direction of the rotary shaft, and a certain image is displayed between the outer circumferential surface of the image space and the center as the light sources engaged thereon are rotated; and

a plurality of display unit supports which are adapted to integrally connect the display units and to fix the same to the rotary shaft,

wherein it is possible to display a 3D image in an image space by controlling an on and off of the light sources as the rotation frame is rotated.

2. The device of claim 1, wherein said intermediate display units are distanced from the outer most display unit at a certain angle with respect to the rotary shaft in

such a manner that the light sources each having a smaller rotational radius are not covered by the light sources each having a larger rotational radius.

3. The device of claim 1, wherein each display unit is symmetrically installed with respect to the rotary shaft for thereby minimizing the vibration of the rotary frame.

4. The device of either claim 1 or claim 3, wherein said rotational information display device includes:

an image storing device for storing a 3D image information converted into a cylindrical coordinate(r , θ , z : radius, angle, height);

a sensor means for measuring a rotational angle of the rotation frame; and

a central processing unit adapted to supply a power to a light source which is most matched with a height "z" among the 3D image information based on a rotational angle θ among the light sources of the display unit of the radius nearest the radius "r" in the 3D image information.

5. The device of either claim 1 or claim 4, wherein a 3D image formed by the rotation of the rotation frame is asymmetrical in left and right directions.

6. In a rotational information display device which includes a housing, a motor installed in the housing and driven when a power is supplied, a wire line for supplying power, and a rotation frame which is engaged to a rotary shaft of the motor and is rotated, a rotational information display device, comprising:

said rotation frame which includes:

a first light emitting diode support in which the light sources are arranged based on an outer shape of an item for thereby displaying the shape of the

item in 3D based on the rotation of the rotation frame;

a second light emitting diode support which is longitudinally protruded in a vertical direction with respect to the first light emitting diode support and has a front end in which the light sources are engaged; and

5 a third light emitting diode support which is protruded in a direction opposite to the direction that the second light emitting diode support is protruded and has a plurality of light sources engaged in one side of the same.

7. The device of claim 6, wherein an arrangement of the light sources engaged
10 in the first light emitting support corresponds to an outer shape of a beverage bottle.

8. The device of claim 6, wherein an arrangement of the light sources engaged
in the first light emitting diode support corresponds to an outer shape of a Christmas
tree.

15 9. The device of claim 6, wherein an arrangement of the light sources engaged
in the first light emitting diode support corresponds to an outer shape of a snowman
with a hat.